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Published:

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **USE OF HERBS AS A DELIVERY SYSTEM FOR BIOACTIVE PHYTOCHEMICALS**

(57) Abstract: The subject invention provides methods for controlling weeds, plant pests, or plant pathogens comprising the application of a bioactive herbage (plant material) composition to soil as a soil amendment or as top dressing for potted plants. In certain embodiments, the method of controlling weeds, plant pests, or plant pathogens comprises the application of a bioactive herbage (plant material) composition to soil as a soil amendment or as top dressing for potted plants in amounts sufficient to control weeds, plant pests, or plant pathogens, wherein said bioactive herbage is obtained from: (a) *Monarda* spp.; (b) *Chamaemelum* spp.; (c) *Matricaria* spp.; (d) *Chenopodium* spp.; or (e) various combinations of thereof. Herbage can be dried or wet and other sources of bioactive herbage are also suitable for use in the subject invention are provided.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/22272

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A01N 65/00

US CL : 504/116.1, 118; 71/23; 47/9

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 504/116.1, 118; 71/23; 47/9

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
None

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WEST (USPAT, USOCR, PGPUBS, JPO, EPO, DWPI): herb-, herbicid-, pesticid-, insecticid-, mulch-

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2001-320985 A (TAKEGAWA et al) 20 November 2001. See English abstract.	1-21
Y	HOAGLAND, ROBERT E. "Bioherbicides: Phytotoxic Natural Products" Chapter 7 in "Agrochemical Discovery: Insect, Weed, and Fungal Control" ACS symposium Series 774, Baker et al, eds. 2001, pages 72-76.	1-21
Y	GRAINGE et al. Handbook of Plants with Pest-Control Properties. John Wiley & Sons. 1988. Pages xi-xiv, 1, 8, 9, 16-18, 27-28, 30, 35-38, 42-43, 52-55, 60,62, 74, 75, 80-82, 99-100, 103-104, 117, 138-140, 149, 158-159, 163, 172-173, 183, 189-192, 196, 212-213, 240, 274, 292-293.	1-21



Further documents are listed in the continuation of Box C.



See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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